



TARDEC OVERVIEW

Tank Automotive Research, Development and Engineering Center

APTAC Spring Conference – Detroit

27 March, 2007

Peter DiSante, CRADA Manager

SUPERIOR TECHNOLOGY



SUPERIOR ARMY

March 2007

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MISSION AND VISION

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

MISSION: TARDEC provides full service life cycle engineering support to the TACOM LCMC, PEO GCS, PEO CS&CSS, and PM FCS to develop and integrate the right technology solutions to improve the effectiveness of the current force and realize the superior capability of the future force to facilitate Army transformation.



VISION: TARDEC is the first choice of technology and engineering expertise for today's and tomorrow's ground vehicle systems and support equipment.





TARDEC EXECUTIVE TEAM

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY



Dr. Paul Rogers Acting Executive Director Research



Dr. Grace M. Bochenek Director

OPEN

Executive Director



Mr. Thom Mathes
Executive Director
Product Development





Mr. Timothy F. Tarczynski Executive Director Operations





COL Bryan McVeigh Military Deputy



STATE OF THE ART LABS

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

ADVANCED COLLABORATIVE ENVIRONMENTS

ADVANCED CONCEPTS LAB

ADVANCED MATERIALS & MANUFACTURING CENTER

BRIDGING

PHYSICAL PROTOTYPING

ROBOTICS

CREW STATION & EMBEDDED SIMULATION

PROPULSION

FUELS & LUBRICANTS

TRACK & SUSPENSION

WATER

LASER PROTECTION

ELECTRONICS ARCHITECTURE

NEXT GENERATION SOFTWARE















What We Do

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

TARDEC Product Lines

TARDEC is responsible for engineering support to more than 2,800 Army systems and many of the Army's and DoD's top joint warfighter development programs:

- Combat and Tactical Vehicles
- Logistics Equipment
- Water Generation and Purification





- Fuels and Lubricants
- Military Bridging



- Fuel and Water Storage, Distribution and Quality Surveillance Equipment
- Countermine Equipment





TARDEC's Technology Thrusts

- Vehicle Survivability Systems
- Water Generation and Purification
- Unmanned Vehicle Developments
- Advanced Vehicle Concepts
- Fuel and Lubricant Research
- Crew Station Integration and Automation
- Software/Vetronics
- Next Generation Software
- Hybrid-Electric Power
- Propulsion
- Fuel Cells
- Collaborative Environments
- Physical Prototyping
- Advanced Materials
- Analytical and Physical Simulation
- High Performance Computing











PARTNERSHIP APPROACH CENTERS OF EXCELLENCE

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY





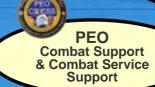


ACQ LOG TECH











Integrated logistics Support Center (ILSC)



COMMAND

Depots and Arsenals



Acquisition Center







NSC Natick Soldier Center

The TACOM LCMC integrates Army Acquisition, Logistics, and Technology (ALT) responsibilities, authorities, and processes to provide the best possible support to warfighters and one voice to the customer.



SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

APU Test platform





Methanol APU

National Automotive Center

The primary mission of the National Automotive Center (NAC) is to serve as a catalyst linking industry, academia, and government in the development and exchange of automotive technologies that will benefit all sectors.



Hybrid Hydraulic FMTV

Hydrogenics





DUAL NEEDS FOCUS

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY





INDUSTRY NEEDS

















SBIR Program

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Small Business Innovation Research (SBIR) Program

Army SBIR Program – 07.2 PHASE I Time Table

Topic Generation SEP 2006 - APR 2007

Topic Pre-release on Web* 12 APR 2007

Solicitation Opens 14 MAY 2007

Solicitation Closes 13 JUL 2007

Proposal Evaluation JUL - AUG 2007

Phase I Selections 14 AUG 2007

Negotiate Contracts AUG - OCT 2007

The goal of the Army SBIR program is to tap into the innovation and creativity of small businesses to help meet the Army's R&D objectives, and to develop technologies, products and software that can be commercialized through sales in the private sector or to the government.

*www.acq.osd.mil/osbp/sbir/

TARDEC/PEO will have up to 24 topics posted



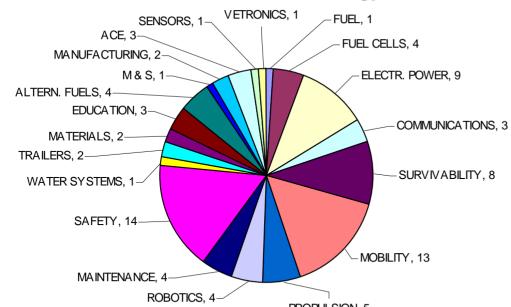


CRADA Program

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Cooperative Research And Development Agreement (CRADA) Program

CRADA Technology Areas



82 Active TARDEC CRADAs as of 1/8/07

CRADAs are established between Federal Laboratories and commercial, academic, or non-profit partners to facilitate technology transfer between the parties for mutual benefit.





SBIR / CRADA / Outreach Points of Contact

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

TARDEC point of contact for CRADA:

Pete DiSante

Phone: (586) 574-8958

E-Mail: disantep@tacom.army.mil

TARDEC point of contact for SBIR:

Mr. Jim Mainero

Phone: (586) 574-8646

E-Mail: maineroj@tacom.army.mil

Mechanisms & Partnerships Team:

E-Mail: tardec.nac.outreach@tacom.army.mil

